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OUTPUT ADJUSTING DEVICE FOR SEMICONDUCTOR LASER

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ABSTRACT

PURPOSE: To control the output of a semiconductor laser finely with simple constitution by converting the detection value of the output of the semiconductor laser from analog to digital and determining the value of a current supplied to the semiconductor laser, converting current value data corresponding to the determined current value from digital to analog, and supplying the corresponding current to the semiconductor laser.

CONSTITUTION: A microcomputer 31 determines the value of the current supplied to the semiconductor laser 32 based on an A/D converted value from an A/D converter 35 and outputs the digital current value data from a specific port to a D/A converter 36 through a data bus according to the determined current value. This D/A converter 36 converts the current value data from the microcomputer 31 from digital to analog to obtain analog data. The converted value of this D/A converter 36 is converted (I/V) into a voltage value by the current-voltage converting circuit composed of an operational amplifier 37, a variable resistor 38, and a resistance 39, and the voltage is supplied to the base of a transistor 41 interposed in the feed path of the semiconductor laser 32.

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